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This Journal, founded by the Medical Society for the Study of the Venereal Diseases, publishes original work on the investigation and treatment of genitourinary and allied disorders, and review articles, correspondence, and abstracts.

Advice to authors Papers for publication, which will be accepted on the understanding that they have not been and will not be published elsewhere and are subject to editorial revision, should be sent in duplicate to Dr A Mindel, Academic Department of Genitourinary Medicine, James Pringle House, Middlesex Hospital, London W1N 8AA. All authors must give signed consent to publication. Submitted papers must be accompanied by the following statement, signed by all the authors: "No paper resembling the enclosed article has been or will be published except in Genitourinary Medicine. We transfer all copyright ownership to Genitourinary Medicine." Manuscripts will only be acknowledged if a stamped addressed postcard or international reply coupon is enclosed. Rejected papers will not be returned. Figures will be returned if requested at the time of submission.

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- (3) The title of the paper should be as brief as possible.
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- (5) Only the institution(s) where work was done by each author should be stated.
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- 1 Stack WC. Genital herpes diagnosed by cervical cytology. Genitourin Med 1990;66:47-8.
- 3 CDC. Congenital syphilis—New York City 1986–1988. MMWR 1989; 38:825–9.

BOOK REVIEW

Vaccines for sexually transmitted diseases. Edited by A Mehuis and RE Spier. London: Butterworths, 1989 (pp 315, £45).

This book contains a report of the proceedings of a conference of the same title held in Oxford in April 1989 that was sponsored by the World Health Organisation and the journal Vaccine. It covers general aspects of vaccine development, and also the work on specific sexually transmitted infections. There are chapters on the gonococcus, candida, chlamydia, syphilis, hepatitis B, papillomaviruses, Herpes simplex and, not surprisingly, human immunodeficiency virus.

The coverage is typical of a conference proceedings. The papers range from comprehensive review articles to abstracts. The frustration of the lack of information in abstracts is only just offset by finding that the transcripts of discussions are also available.

Its difficult to know who would purchase such a book. There is little new information for the experts in the field, and it is certainly too specialised for most genitourinary physicians. The practising doctor is much more interested in applications of actual vaccines, than the potential of possible ones. At a price of £45 I suspect that it will find a home in the medical school library but will be too expensive for the individual pocket.

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NOTICES

Northern Genito-urinary Physicians Group

The Annual General Meeting will be held in Manchester, 3 November 1990, at the Excelsior Hotel, Manchester airport. The AGM will be preceded by a lecture by Professor Dulcie Coleman, at 11.00 am. Lunch will be served.

Membership is encouraged from all genito-urinary physicians and doctors from allied specialties and is not reserved for residents of the North of England.

For further details of this meeting and membership, please contact: President: Dr D A Hicks, Dept GU Medicine, Royal Hallamshire Hospital, Sheffield, S10 2JF. Telephone 0742 766928 or Secretary: Dr A B Alawattegama,

Secretary: Dr A B Alawattegama, Dept GU Medicine, The University of Liverpool, Royal Liverpool Hospital, Prescot Street, Liverpool L7 8XP. Telephone 051 709 0141 Ext 2635/2902.

7th Regional conference on STD. Lusaka, Zambia 17-20 March, 1991

The African Union Against Venereal Treponematoses Diseases and (AUVDT) is an association of scientists working in the field of sexually transmitted diseases in Africa and holds meetings every two years. It will be holding its next biannual regional meeting and international conference on STD in Lusaka, Zambia between 17 and 20 March 1991. The themes of the conference are "STD and the Community" and "AIDS Policies". In view of the rising antibiotic resistant gonorrhoea, the impact of syphilis on the mother and the child, the resurgence of yaws, and recent pandemic of AIDS, this forthcoming conference will be of vital importance in defining the control strategies for these problems in Africa.

Information may be obtained from Dr S K Hira, Dermato-Venereology Dept, PO Box 50001, Lusaka, Zambia.

CURRENT PUBLICATIONS

Selected titles from recent reports published worldwide are in the following arranged sections:

Gonorrhoea Chlamvdia Candidiasis Bacterial vaginosis Trichomoniasis Non-specific genital infection Pelvic inflammatory disease Syphilis and other treponematoses Herpes simplex virus Human papillomavirus infection Cervical cytology and colposcopy Public health and social aspects Miscellaneous

Gonorrhoea

Survival of gonococci from urethral discharges on fomites

JL PEREZ, E GOMEZ, G SAUCA. Eur J Clin Microbiol Infect Dis 1990;9:54.

Intrinsic penicillin resistance in penicillinase producing Neisseria gonorrhoeae strains

F IKEDA, Microbiol Immunol 1990;34:1.

Single dose oral cefoxime versus amoxicillin plus probenecid for the treatment of uncomplicated gonorrhoea in men

DW MEGRAN, K LEFEBVRE, V WILLETTS, WR BOWIE, Antimicrob Agents Chemother 1990;34:355-357.

Behavioural contributions to acquisition of gonorrhoea in patients attending an inner city sexually transmitted disease clinic

DM UPCHURCH, WE BRADY, CA REICHART, EW HOOK III, J Infect Dis 1990;161:938.

infection Gonococcal Scotland—antigenic heterogeneity and antibiotic susceptibility of infecting strains

H YOUNG, A MOYES, DHH ROBERTSON, AC MCCARTNEY, G LINDSAY, G GALLACHER, IB TAIT, D BROGAN, C FOX, GA KOHIYAR, et al. Eur J Epidemiol 1990;6:1.

Biochemical and genetic studies with anginine and proline auxotrophs of Neisseria gonorrhoea FJ PICHARD, JR DILLON, Can J Microbiol 1989;35:1069.

Monoclonal antibodies to outer membrane protein PII block interactions of Neisseria gonorrhoeae with human neutrophils

C ELKINS, RF REST, Infect Immun 1990; 58:1078.

Current status of serotyping of Neisseria gonorrhoeae. PK KOHL, CA ISON, D DANIELSSON, JS KNAPP, D PETZOLDT, Eur J Epidemiol 1990;6:91.

The role of transformation in the variability of the Neisseria gonorrhoeae cell surface

JJ SCOCCA, Mol Biol 1990;4:321.

Chlamydia

Chlamydia trachomatis infection in pregnancy and effect of treatment on outcome

GM RYAN JR, TN ABDELLA, S GENE MCNEELEY, VS BASELSKI, DE DRUMMOND, Am J Obstet Gynecol 1990;162:34.

Amoxicillin therapy for Chlamydia trachomatis in pregnancy

WR CROMBLEHOLME, J SCHACHTER, M GROSSMAN, DV LANDERS, RL SWEET, Obstet Gynecol 1990;75:752.

Clindamycin therapy Chlamydia trachomatis in women WF CAMPBELL, MG DODSON, Am J Obstet Gynecol 1990;162:343.

Pivampicillin versus doxycycline in the treatment of chlamydial urethritis in men

AB LASSUS, T VIRRANKOSKI, SI REITAMO. M KARTAMAA, HP HAPPONEN, PA SAIKKU, PK KARVONEN, JE LASSUS, Sex Transm Dis 1990;17:15.

Does previous Chlamydia trachomatis infection influence the pregnancy rate of in vitro fertilization and embryo replacement

S OSSER, K PERSSON, H WRAMSBY, P LIEDHOLM, Am J Obstet Gynecol 1990; 162:40.

Comparison of chlamydial culture with chlamydiazyme assay during erythromycin PCE treatment of chlamydia genital infections

DH HAVLICHEK JR, C MAUCK, NL MUMMAW, G MOORER, SJ RAJAN, IK MUSHAWAR, Sex Transm Dis 1990;17:48.

Quantitative culture of endocervical Chlamydia trachomatis

BP KATZ, RT ROLFS, B BATTEIGER, V CAINE, RB JONES, J Clin Microbiol 1990;28:774.

Comparison of a DNA probe with culture for detecting Chlamydia trachomatis directly from genital specimens

CA GRAFTON, R LIM-FONG, E PRASAD, PC KIBSEY, Mol Cell Probes 1990;4:25.

Spread and persistence of infection with a trachoma biovar strain of Chlamydia trachomatis in multiplying and non multiplying McCoy cells

S BENES, Sex Transm Dis 1990;17:1.

Chlamydia trachomatis—host cell interactions; role of the chlamydial major outer membrane protein as an adhesin

H SU, NG WALKINS, YX ZHANG, HD CALDWELL, Infect Immun 1990;58: 1017

Is it cost-beneficial to screen adolescent males for chlamydia

ER ALEXANDER, Am J Public Health 1990; 80:531

Screening for Chlamvdia trachomatis in adolescent males: a costbased decision analysis

AG RANDOLF, E WASHINGTON, Am J Public Health 1990;80:545.

Prevalence and epidemiologic correlates of Chlamydia trachomatis in rural and urban populations

L WINTER, AS GOLDY, C BAER, Sex Transm Dis 1990;17:30.

Candidiasis

Vulvovaginal candidiasis complicating recurrent bacterial vaginosis V REDONDON-LOPEZ, C MERIWETHER, C SCHMITT, M OPITZ, R COOK, JD SOBEL, Sex Transm Dis 1990;17:51.

Growth inhibition of Candida albicans and other medically important yeasts by vaginal contraceptive products

M SHUBAIR, B LARSEN, Gynecol Obstet Invest 1990;49:67.

Is Candida stellatoidea disappearing from the vaginal mucosa

KJ KWON-CHUNG, BL WICKES, IF SALKIN, HL KOTZ, JD SOBEL, J Clin Microbiol

1990;28:600.

Recurrent allergic vulvovaginitis treatment with *Candida-albicans* allergen immunotherapy

D RIGG, MM MILLER, WJ METZGER, Am J Obstet Gynecol 1990;162:332.

Application of DNA typing methods to Candida albicans epidemiology and correlations with phenotype DA STEVENS, FC ODDS, S SCHERER, Rev Infect Dis 1990;12:258.

The iC3b receptor on Candida albicans; subcellular localization and modulation of receptor expression by glucose

MK HOSTETTER, JS LORENZ, L PREUS, KE KENDRICK, J Infect Dis 1990;161:761.

Antigens and immune responses in Candida albicans infection

RB ASHMAN, JM PAPADIMITRIOU, AK OTT, JR WARMINGTON, *Immunol Cell Biol* 1990; **68**:1.

Interest of biotyping Candida albicans in chronic vulvovaginitis S POIRIER, P AUGER, J JOLY, M STEBEN, Mycoses 1990;33:24–28.

Scanning electron microscopic pattern of recurrent vaginits by Candida albicans in the mouse F SYMOENS, V ROUMA, C PLANARD, N NOLARD, Mycoses 1990;32:652.

Susceptibility of Candida albicans and other yeasts to fluconazole: relation between in vitro and in vivo studies

JN GALGIANI, Rev Infect Dis 1990; 12:S272.

Pelvic inflammatory disease

Pelvic inflammatory disease JM PEARCE, Br Med J 1990;300:1090.

Serologic evidence for the role of Chlamydia trachomatis, Neisseria gonorrhoeae and Mycoplasma hominis in the etiology of tubal factor infertility and ectopic pregnancy

A MIETTINEN, PK HEINONEN, K TEISALA, K HAKKARANEN, R PENNONEN, Sex Transm Dis 1990;17:10.

Association between vaginal douching and acute pelvic inflammatory disease

P Wølner-Hanssen, da eschenbach, J Paavonen, ce stevens, nb kiviat, C Critchlow, t derouen, L koutsky, kk holmes, JAMA 1990;263:1936.

Cigarette smoking as a risk factor for pelvic inflammatory disease PA MARCHBANKS, NC LEE, HB PETERSON, Am J Obstet Gynecol 1990;162:639.

A randomized comparison of gentamicin-clindamycin and cefoxitin-doxycycline in the treatment of acute pelvic inflammatory disease MD WALTERS, RS GIBBS, Obstet Gynecol 1990;75:867.

Comparative evaluation of clindamycin versus clindamycin plus tobramycin in the treatment of acute pelvic inflammatory disease SA GALL, L CONSTANTINE, Obstet Gynecol 1990;75:282.

Non-specific genital infection

Nongonococcal urethritis incidence has fallen at one university health service: are "safer sex" messages being heard

LE FRISCH, BF GREENE, R HARRISON, B LAWLOR, Sex Transm Dis 1990;17:7.

Bacterial vaginosis

Statistical evaluation of diagnostic criteria for bacterial vaginosis

JL THOMASON, SM GELBART, RJ ANDERSON, AK WATT, PJ OSYPOWSKI, FF BROEKHUIZEN, Am J Obstet Gynecol 1990;162:155.

The role of bacterial vaginosis as a cause of amniotic fluid infection, chorioamnionitis and prematurity—a review

J MARTIUS, DA ESCHENBACH, Arch Gynecol Obstet 1990;247:1.

The role and prevalence of Gardnerella vaginalis in anaerobic vaginosis

SC SEHGAL, V NALINI, Infection 1990; 18:83.

Demonstration of heterogeneity among the antigenic proteins of mobiluncus species

JR SCHWEBJE, SL HILLIER, MJ FOHN, SA LUKEHART, J Clin Microbiol 1990; 28:422.

Syphilis and other treponematoses

Acquired secondary syphilis in a child

SK ECHOLS, DL SHUPP, AL SCHROETER, J Am Acad Dermatol 1990;22:313.

Partner notification—can it control epidemic syphilis

JK ANDRUS, DW FLEMING, DR HARGER, MY CHIN, DV BENNATT, JM HORAN, G OXMAN, B OLSON, LR FOSTER, Ann Int Med 1990;112:539.

Use of the polymerase chain reaction to detect DNA sequences specific to pathogenic treponemes in cerebrospinal fluid

PE HAY, JR CLARKE, RA STRUGNELL, D TAYLOR-ROBINSON, D GOLDMEIER, Fems Microbiol Let 1990;68:233.

Trichomoniasis

Characteristics of *Trichomonas* vaginalis isolates from women with and without colpitis macularis
JN KRIEGER, P WOLNER-HANSSEN,

C STEVENS, KK HOLMES, J Infect Dis 1990;161:307.

Growth of *Trichomonas vaginalis* in commercial culture media

SM GELBART, JL THOMASON, PJ OSYPOWSKI, AV KELLETT, JA JAMES, FF BROEKHUIZEN, J Clin Microbiol 1990;28:962–964.

Herpes simplex virus

Double-blind, placebo-controlled trial of a herpes simplex virus type 2 glycoprotein vaccine in persons at high risk from genital herpes infection

GJ MERTZ, R ASHLEY, RL BURKE, J BENDETTI, C CRITCHLOW, CC JONES, L COREY, J Infect Dis 1990;161:653.

Randomized, double-blind, placebo-controlled patient-initiated study of topical high- and low- dose interferon- α with nonoxynol-9 in the treatment of recurrent genital herpes

SL SACKS, TL VARNER, KS DAVIES, ML REKART, HG STIVER, ER DELONG, PW SELLERS, J Infect Dis 1990;162:692.

Neuroinvasion by herpes simplex virus—an in vitro model for characterisation of neurovirulent strains T BERGSTROM, E LYCKE, J Gen Virol 1990;71:405.

Molecular biology of herpes simplex virus latency

DS LATCHMAN, J Exp Pathol 1990;71:133.

Immune suppression by herpes viruses

CR RINALDO JR, Ann Rev Med 1990; 41:331.

Cytotoxic lymphocytes-T specific for herpes simplex virus (HSV) studied using adenovirus vectors expressing HSV glycoproteins LA WITMER, KL ROSENTHAL, FL GRAHAM, HM FRIEDMAN, A YEE, DC JOHNSON, J Gen

Role of DNA topoisomerase 1 in the replication of herpes simplex virus type 2

Virol 1990;71:379.

Y YAMADA, N YAMAMOTO, K MAENO, Y NISHIYAMA, Arch Virol 1990;110:121.

Innate resistance to herpes simplex virus infection: human lymphocyte and monocyte inhibition of viral replication

M SARMIENTO, ES KLEINERMAN, J Immunol 1990;144:1942.

Restriction endonunuclease analysis of deoxyribonucleic acid (DNA) from genital herpes simplex virus type 2 isolates in Thailand

W CHANTRATITIA, C YOOSOOK, Sex Transm Dis 1990;17:42.

Identification of C3b-binding regions on herpes simplex virus type 2 glycoprotein C

C SEIDEL-DUGAN, M PONCE de LEON, HM FRIEDMAN, RJ EISENBERG, GH COHEN, J Virol 1990;64:1897.

Herpes simplex virus infected cells disarm killer lymphocytes

OL CONFER, GM VERCELLOTTI, D KOTASEJ, JL GOODMAN, A OCHOA, HS JACOB, *Proc Nat Acad Sci USA*, 1990;87:3609.

Human papillomavirus infection

Genital warts: need to screen for coinfection

CA CARNE, G DOCKERTY, Br Med J 1990; 300:459.

Clinical and molecular evaluation of acetowhite genital lesions in men RE SCHULTZ, JW MILLER, GR MACDONALD, JR AUMAN, NR PETERSON, BE WARD, CP CRUM, J Urol 1990;143:920.

Long-term follow up of subclinical human papillomavirus infection treated with carbon dioxide laser and intraurethral 5-fluorouracil: treatment protocol

VL CARPINIELLO, M SCHOENBERG, TR MALLOY, J Urol 1990;143:726.

Intralesional interferon alFa-2b for the treatment of genital warts

CE WELANDER, HD HOMESLEY, KA SMILES, EA PEETS, Am J Obstet Gynecol 1990; 162:348.

Local anaesthesia of the genital mucosa with Lidocaine/Prilocaine cream (EMLA) for laser treatment of Condylomata acuminata—a placebo controlled study

E RYLANDER, I SJOBERG, S LILLIEBORG, D STOCKMAN, Obstet Gynaecol 1990;75: 302

Human papillomavirus types in anogenital warts of children

J Med Virol 1990;30:142.

Prevalence of cervical dysplasia and HPV infection according to sexual behaviour

J AZOCAR, SMJ ABAD, H ACOSTA, R HERNANDEZ, M GALLEGOS, E PIFANO, R BLANCH, A KRAMAR, Int J Cancer 1990; 45:622.

Underwear: contamination by human papillomaviruses
C BERGERON, A FERENCZY, R RICHART, Am J Obstet Gynecol 1990;162:25.

Role of papillomaviruses F CHANG, J Clin Pathol 1990;43:269.

Human papillomavirus types and recurrent cervical warts
GJ NUOVO, BM PEDEMONTE, JAMA 1990;
263:1223.

Prevalence, incidence and estimated life-time risk of cervical human papillomavirus infections in a nonselected Finnish female population

K SYRJANEN, M HAKAMA, S SAARIKOSKI, M VAYRYNEN, M YLISKOSKI, S SYRJANEN, V KATAJA, D CASTREN, Sex Transm Dis 1990;17:15.

Prospective follow-up of genital HPV infections—survival analysis of the HPV typing data

V KATAJA, K SYRJANEN, S SYRJANEN, R MANTYJARVI, M YLISKOSKI, S SAARIK-OSKI, JT SALOENEN, *Eur J Epidemiol* 1990; 6:9.

Pork intake and human papillomavirus-related disease

A SCHNEIDER, A MORABIA, V PAPENDICK, R KIRCHMAYR, Nutr Canc 1990;13:209.

Human papillomavirus types and recurrent cervical warts

GJ NUOVO, BM PEDEMONTE, *JAMA* 1990; **263**:1223.

Genital warts: Molecular biology and immunology

R TRINDLE, Immunol Cell Biol 1990;68:71.

Effect of the menstrual cycle on detection and typing of human papillomavirus in uterine cervical cells

PJ McNicol, FB Guijon, M Paraskevas, E HEYWOOD, NJ GRAY, RC BRUNHAM, Am J Obstet Gynecol 1990;162:1037.

In situ hybridization analysis of HPV DNA in cervical precancer and cervical cancers from China

HX JI, S SYRJANEN, AR WU, FJ CHANG, Arch Gynae Obstet 1990;247:21.

Human papillomavirus DNA in situ hibridisation may be used for the quality control of genital tract biopsies

RM RICHART, GJ NUOVO, Obstet Gynaecol 1990;75:223.

DNA hybridization of routinely processed tissue for detecting HPV DNA in anal squamous cell carcinoma over 40 years

JH SCHOLEFIELD, P MCINTYRE, JG PALMER, PJ COATES, NA SHEPERD, JMA NORTHOVER, J Clin Pathol 1990;43:133.

Basic concepts and practical applications of recombinant DNA techniques in detection of human papillomavirus (HPV) infections SM SYRJANEN, Acta Path Micro Immunol Scand 1990:98:95.

Detection and typing of human papillomavirus DNA from cervical biopsies by the slot-blot hybridization method

F DAVID, R LEVY, G LUCOTTE, Mol Cell Probes 1990;4:53.

Comparison of the detection of cervical human papillomavirus infection by filter DNA hybridization of cytologic specimens and by in situ DNA hybridization of tissues

R NEUMANN, G NELLES, HJ EGGERS, S DIEHL, H CREMER, HK ZINSER, *Acta Cytol* 1990; 34:115.

Temporal associations of human papillomavirus infection with cervical cytologic abnormalities
AT LORINCZ, MH SCHIFFMAN, WJ JAFFURS, J MARLOW, AP QUINN, GF TEMPLE, Am J Obstet Gynecol 1990;162:645.

A histological and immunohistological study of cervical intraepithelial neoplasia in relation to recurrence after local treatment SA RASBRIDGE, D JENKINS, SK TAY, Br J Obstet Gynaecol 1990;97:245.

Serological responses to papillomavirus group-specific antigens in women with neoplasia of the cervix uteri

L DILLNER, J MORENO-LOPEZ, J DILLNER, J Clin Microbiol 1990;28:624.

Detection of human papillomavirus DNA in prostate gland tissue by using the polymerase chain reaction amplification assay

PJ McNICOL, JG DODD, J Clin Microbiol 1990;28:409.

General primer-mediated polymerase chain reaction permits the detection of sequenced and still unsequenced human papillomavirus genotypes in cervical scrapes and carcinomas

AJC van den Brule, PJF SNIJDERS, RLJ GORDIJIN, OP BLEKER, CJLM MEIJER, JMM WALBOOMERS, Int J Cancer 1990; 45:644.

Multiple primer pairs polymerase chain reaction for the detection of human papillomavirus types

MM ANECESCHI, C FALCINELLI, M PIERETTI, EV COSMI, J Virol Meth 1990;28:59.

Amplification and specific detection of transforming gene region of human papillomavirus 16, 18 and 33 in cervical carcinoma by means of the polymerase chain reaction

M SHIMADA, M FUKUSHIMA, H MUKAI, I KATO, A NISHIJAWA, K HUJINAGA, Jpn J Cancer Res 1990;81:1.

Human T-cell responses to human papillomavirus type-16 Ll and type-E6 synthetic peptides—identification of T-cell determinants, HLA-DR restriction and virus type specificity

G STRANG, JK HICKLING, G ANGUS, J MCINDOE, K HOWLAND, D WILKINSON, H IKEDA, JB ROTHBARD, J Gen Virol 1990; 71.423

Analysis of human papillomavirus type-16 open reading frame E7 immortalizing function in rat embryo fibroblast cells

PM CHESTERS, KH VOUSDEN, C EDMONDS, DJ MCCANCE, J Gen Virol 1990;71:449.

Association of human papillomavirus types 16 and 18 E6 proteins with p53

BA WERNESS, AJ LEVINE, PM HOWLEY, Science 1990;248:76.

The short arm of chromosome 11 likely is involved in the regulation of the human papillomavirus type 16 early enhancer-promoter and in the suppression of the transforming activity of the viral DNA

PH SMITS, HL SMITS, MF JEBBINK, J ter SCHEGGET, Virology 1990;1176:158.

Oncogenic transformation by human papillomavirus type-16 deoxyribonucleic acid in the presence of progesterone or progestins from oral contraceptives A PATER, M BAYATPOUR, MM PATER, Am J Obstet Gynecol 1990;162:1099.

The DNA-binding of HPV-16 E2 protein interaction with the viral enhancer: protein-induced DNA binding and role of the nonconserved core sequence in binding site affinity

CL BEDROSIAN, D BASTIA, Virology 1990;174:557.

Human papillomavirus type 6b DNA required for initiation but not maintenance of transformation of C127 mouse cells

D MORGAN, G PECORARD, I ROSENBERG, V DEFENDI, J Virol 1990;64:969-976.

Integration of human papillomavirus-16 DNA and genomic rearrangements in immortalized human keratinocyte lines

NC POPESCU, JA DIPAOLO, Cancer Res 1990;50:1316.

Cervical cytology and colposcopy

Anxiety caused by abnormal result of cervical smear test: a controlled trial

C WILKINSON, JM JONES, J MCBRIDE, *Br Med J* 1990;**300**:440.

Is routine colposcopic assessment necessary following laser ablation of cervical intraepithelial neoplasia

A LOPEA, S MOR-YOSEF, S PEARSON, D IRELAND, JM MONAGHAN, Br J Obstet Gynaecol 1990;97:175.

Improving the sensitivity of cervical cytologic screening: a comparison of duplicate smears and colposcopic examination of patients with cytologic inflammatory epithelial changes

LE FRISCH, H PARMAR, LD BUCKLEY, SA CHALEM, Acta Cytol 1990;34:136.

Reporting cervical intraepithelial neoplasia (CIN): intra- and interpathologist variation and factors associated with disagreement

SM ISMAIL, AB COLCLOUGH, JS DINNEN, D EAKINS, DMD EVANS, E GRADWELL, JP O'SULLIVAN, JM SUMMERELL, R NEWCOMBE, Histopathol 1990;16:371.

Inflammatory epithelial changes and nonviral cervicovaginal pathogens

LE FRISCH, LD BUCKLEY, SA CHALEM, Acta Cytol 1990;34:129.

Colposcopy of patients with cytologic inflammatory epithelial changes

LE FRISCH, H PARMAR, LD BUCKLEY, SA CHALEM, Acta Cytol 1990;34:133.

Implications of inflammatory changes on cervical cytology
JD WILSON, AJ ROBINSON, SA KINGHORN, DA HICKS, Br Med J 1990;300:638.

Screening for cervical cancer in emergency centers and sexually transmitted disease clinics

AC MARCUS, Obstet Gynecol 1990;75:453.

Miscellaneous

Sexually transmitted diseases in rape victims (letter)
DE DASSEY, Rev Infect Dis 1990;12:159.

Sexually transmitted diseases in rape victims (letter)

s estreich, ge forster, Rev Infect Dis 1990;12:159.

Microbiologic characteristics of lactobacillus products used for colonization of the vagina

VL HUGHES, SL HILLIER, Obstet Gynecol 1990;75:244.

Q fever—sexually transmitted infection

K STANISLAWA, TYLEWSKA-WIERBANOW-SKA, D KRUSZEWSKA, J Infect Dis 1990; 161:368.

Allergy to human seminal fluid—characterization of the allergen and experience with immunotherapy

JL OHMAN, S MALKIEL, S LEWIS, JR LORUSSO, J Allergy Clin Immunol 1990;85:103.

Malignant melanoma of the vulva: a clinicopathological study of 50 women

MG BRADGATE, TP ROLLASON, CC MCCONKEY, J POWELL, Br J Obstet Gynaecol 1990;97:124.

Histiocytosis-X of the vulva—a case report and review of the literature CN OTIS, RA FISCHER, N JOHNSON, JF KELLEHER, JL POWELL, Obstet Gynecol 1990;75:555.

Malignant melanoma of the female genitalia

SG RONAN, AM ENG, HA BRIELLE, MJ WALKER, TK DAS GUPTA, J Am Acad Dermatol 1990;22:428.

Genital lentiginosis: a clinical and histiopathic study

RL BARNHILL, LS ALBERT, SK SHARMA, MA GOLDENHERSH, AR RHODES, AJ SOBER, J Am Acad Dermatol 1990;22:453.

Penile ulceration with foscarnet (letters)

s FEGUEUX and others, G MOYLE and others, J-D LERNESTEDT, AC CHANAS, Lancet 1990;335:547.

Incidence of uncomplicated genital infections in women using oral contraception or an intrauterine device: a prospective study

312 Current publications

D AVONTS, M SERCU, P HEYERICK, I VANDERMEEREN, A MEHEUS, P PIOT, Sex Transm Dis 1990;17:23.

Heterosexual contact as a major route for transmission of acute hepatitis B among adults

J STRUVE, J GIESECKE, G LINDH, O WEILAND, J Infect 1990;20:111.

Heterosexual transmission of hepatitis B virus in Belle Glade, Florida

LS ROSENBLUM, SC HADLER, KB CASTRO, S LIEB, HW JAFFE, BELLE GLADE STUDY GROUP, J Infect Dis 1990;161:407.

Sexual behaviour of college women in 1975, 1986 and 1989

BA DEBUONO, SH ZINNER, M DAAMEN, WM MCCORMACK, N Engl J Med 1990; 322:821

Cancer among captains and mates on Norwegian tankers

BE MOEN, T RIISE, A HELSETH, Acta Pathol Microbiol Immunol Scand 1990;98:185.

Genitourinary manifestations of fibrositis—an increased association with the female urethral syndrome DJ WALLACE, J Rheumatol 1990;17:238.

Sexually transmitted disease—shadow on the land, revisited AM BRANDT, Ann Int Med 1990;112:481.

Characterization of skin lesions in mice following intradermal inoculation of Haemophilus ducreyi M TUFFREY, F ALEXANDER, RC BALLARD, D TAYLOR-ROBINSON, *J Exp Pathol* 1990; 71:233.

Cytomegalovirus infection among women attending a sexually transmitted disease clinic—association with clinical symptoms and other sexually transmitted diseases

LH PEREIRA, JA EMBIL, DA HAASE, KM MANLEY, Amer J Epidemiol 1990; 131:683.

The switch between latency and replication of Epstein-Barr virus G MILLER, J Infect Dis 1990;161:833.

Prevalence and clinical importance of Entamoeba histolytica in two high-risk groups: travellers returning from the tropics and male homosexuals

T WEINKE, B FRIEDRICH-JANICKE, P HOPP, K JANITSCHKE, J Infect Dis 1990; 161:1029.

Analysis and management of chronic testicular pain
BE DAVIS, MJ NOBLE, JW WEIGEL, JD FORET, WK MEBUST, J Urol 1990;143:936.

A prospective study of genital infections in a family planning clinic 1, microbiological findings and their association with vaginal symptoms T RIORDAN, ME MACAULEY, JM JAMES, PA LEVENTHALL, EM MORRIS, BR NEAL, J ROWLAND, BM EVANS, Epidemiol Infect 1990;104:47.

A prospective study of genital infections in a family planning clinic 2, chlamydia infection—the identification of a high-risk group

ME MACAULEY, T RIORDAN, JM JAMES, PA
LEVENTHALL, EM MORRIS, BR NEAL, DA
ELLIS, Epidemiol Infect 1990;104:55.

First coitus before menarche and risk of sexually transmitted disease ME DUNCAN, G TIBAUK, A PELZER, K REIMANN, JF PEUTHERER, P SIMMONDS, H YOUNG, Y JAMIL, S DAROUGHER, Lancet 1990;335:338.

Public health and social services

Variables influencing condom use among intravenous drug users

s MAGURA, JL SHAPIRO, Q SIDDIQI, DS LIPTON, Am J Public Health 1990;80:82.

